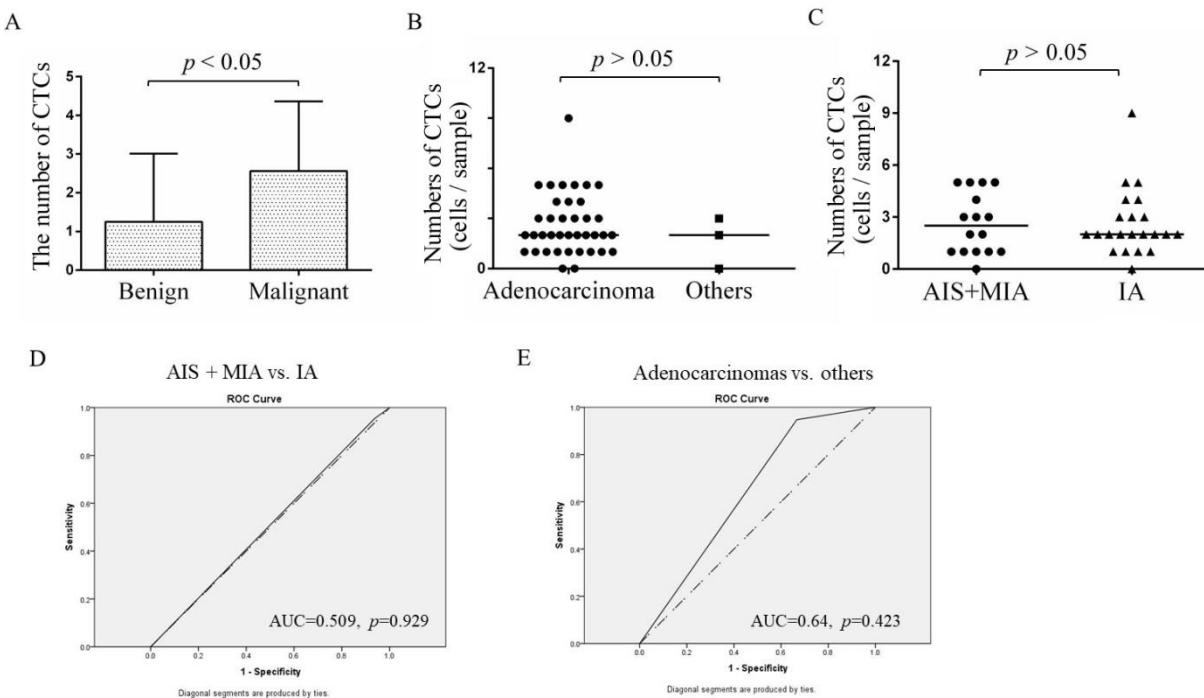
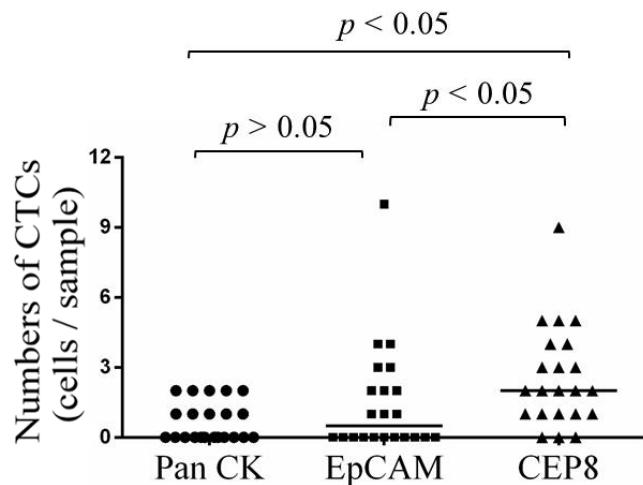


Supplementary figures



Supplementary figure S1 Statistical analysis of the correlation between CTCs and histopathological characteristics of SPNs. A, The Student *t* test of average CTC number between malignant and benign SPN groups. Columns, means; bars, SD. B and C, The Mann-Whitney *U* test of the CTC number between different groups as indicated. D and E, The ROC curve of the CTC number to distinguish different invasiveness (D) or types (E) of SPNs.



Supplementary figure S2 The Mann-Whitney *U* test of the CTC number using different markers as indicated.

Supplementary tables

Table S1 the demographic and clinic pathologic characteristics of patients

Total number (n=53)	Histopathology	
	Malignant (n=41)	Benign (n=12)
Age, median, year	64	59
Gender		
Male	20	9
Female	21	3
Pathological subtype		
Adenocarcinoma	38	
Other	3	
pTNM stage		
0	8	
Ia	24	
Ib	2	
IIb	6	
IIIa	1	
Invasiveness of adenocarcinoma		
AIS	8	
MIA	8	
IA	22	

Table S2 the correlation between CT morphology and clinic pathology of SPNs

CT parameter	Stage		χ^2 value	<i>p</i> value	Type		χ^2 value	<i>p</i> value
	\leq Ia	$>$ Ia			Adenocarcinomas	Others		
Size								
<15 mm	24	3	2.16	0.142	25	2	0	1
\geq 15 mm	9	5			13	1		
Number								
Single	17	6	0.646	0.422	22	1	0.049	0.825
Multiple	16	2			16	2		
Density								
Solid	15	6	1.223	0.269	19	2	0	1
Non-solid	18	2			19	1		

Table S3 the correlation between CT morphology and invasiveness of lung adenocarcinomas

CT parameters	n	Invasiveness			χ^2 value	p value
		AIS	MIA	IPA		
Size						
<15 mm	25	7	6	12	2.937	0.264
≥15 mm	13	1	2	10		
Number						
Single	22	3	2	17	8.113	0.024
Multiple	16	5	6	5		
Density						
Solid	19	1	4	14	6.005	0.064
Non-solid	19	7	4	8		

Table S4 the correlation between density of CT morphology and invasiveness of pathology

CT parameters	Invasiveness		χ^2 value	p value
	AIS+MIA	IPA		
Density				
Solid	5	14	3.886	0.049
Non-solid	11	8		